# **Results of Testing**

Chemical Name	CAS No.	Study Code/Type	Protocol/Guideline	Species	Exposure	Dose/Concentration	No. per Group	Results	Reference
Cyclohexane	110-82-7	EFMONT Environmental Release Data	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		62 FR 61821; 11/19/97, Docket# OPPTS-44644
Cyclohexane	110-82-7	HEADME Dermal absorption	40 CFR 795.226	rat	dermal, 6 hrs	1 and 100 mg/cm <sup>2</sup>	4/sex		61 FR 295624; 5/20/96, Docket# OPPTS-44627
Cyclohexane	110-82-7	HEADME Dermal sensitization	40 CFR 795.226	rat	bolus intravenous	10 mg/kg	4/sex	Expired breath was the major route of excretion of radiolabels	61 FR 295624; 5/20/96, Docket# OPPTS-44627
Cyclohexane	110-82-7	HEDSEN Dermal sensitization	40 CFR 798.4100	guinea pig	dermal	0.5 mL	20	The modified Buehler Method was used to assess the potential of cyclohexane to produce dermal sensitization in guinea pigs. A 10%	61 FR 295624; 5/20/96, Docket# OPPTS-44627

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Cyclohexane	110-82-7	HENEUR Schedule-controlled operant behavior, acute	1991 EPA Guidelines	rats	inhalation, 6 hrs	500, 2000. 7000 ppm	10	Schedule-controlled behavior methods were used to assess the behavioral effects of cyclohexane exposure. The measures of operant performance were fixed ratio response rate, fixed ratio pause duration, fixed interval response rate, and fixed interval index of curvature. On the test day the fixed ratio rate of response for the 7000 ppm group decreased (11%) relative to this group's rate on the day prior to exposure. The effect of 7000 ppm cyclohexane on fixed ratio response rate was transient. No compound-related effects of cyclohexane were detected on the day after exposure nor were any effects apparent for up to two weeks following exposure. The NOEL was 2000 ppm.	61 FR 11414; 3/20/96, Docket# OPPTS-44622
Cyclohexane	110-82-7	HENEUR Neuropathology, subchronic	1991 EPA Guideline for neurotoxicity screening battery	rats	inhalation, 6 hr/day, 90 days	500, 2000, 7000 ppm	12/sex	During exposure to 2000 or 7000 ppm, rats had a diminished response or an absent response to delivery of a punctate alerting stimulus. The diminished or absent alerting response was interpreted to be a compound-related sedative effect. The sedative effect detected during exposures was transient, and no clinical observations of compromised neurological function were detected when the rats were evaluated immediately upon removal from the exposure chambers. The absence of compound-related effects during the Neuropathology evaluation further support the conclusion that cyclohexane-induced sedation during exposure to 2000 and 7000 ppm was transient and reversible. Although the compound-related sedation was transient, it was considered to be toxicologically relevant. Clinical observations revealed no compound-related effects. The NOEL was 500 ppm for both sexes based on the sedation observed at exposure concentrations of 2000 and 7000 ppm.	61 FR 49135; 9/18/96, Docket# OPPTS-44631
Cyclohexane	110-82-7	HENEUR Functional observational battery, subchronic	1991 EPA Guideline for neurotoxicity screening battery	rats	inhalation, 6 hr/day, 90 days	500, 2000, 7000 ppm	12/sex	During exposure to 2000 or 7000 ppm, rats had a diminished response or an absent response to delivery of a punctate alerting stimulus. The diminished or absent alerting response was interpreted to be a compound-related sedative effect. The sedative effect detected during exposures was transient, and no clinical observations of compromised neurological function were detected when the rats were evaluated immediately upon removal from the exposure chambers. The absence of compound-related effects during the Functional Observational Battery evaluation further support the conclusion that cyclohexane-induced sedation during exposure to 2000 and 7000 ppm was transient and reversible. Although the compound-related sedation was transient, it was considered to be toxicologically relevant. Clinical observations revealed no compound-related effects. The NOEL was 500 ppm for both sexes based on the sedation observed at exposure concentrations of 2000 and 7000 ppm.	61 FR 49135; 9/18/96, Docket# OPPTS-44631

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Cyclohexane	110-82-7	HENEUR Motor activity, subchronic	1991 EPA Guideline for neurotoxicity screening battery	rats	inhalation, 6 hr/day, 90 days	500, 2000, 7000 ppm	12/sex	During exposure to 2000 or 7000 ppm, rats had a diminished response or an absent response to delivery of a punctate alerting stimulus. The diminished or absent alerting response was interpreted to be a compound-related sedative effect. The sedative effect detected during exposures was transient, and no clinical observations of compromised neurological function were detected when the rats were evaluated immediately upon removal from the exposure chambers. The absence of compound-related effects during the Motor Activity evaluation further support the conclusion that cyclohexane-induced sedation during exposure to 2000 and 7000 ppm was transient and reversible. Although the compound-related sedation was transient, it was considered to be toxicologically relevant. Clinical observations revealed no compound-related effects. The NOEL was 500 ppm for both sexes based on the sedation observed at exposure concentrations of 2000 and 7000 ppm.	61 FR 49135; 9/18/96, Docket# OPPTS-44631
Cyclohexane	110-82-7	HERTOXTERA Developmental toxicity	40 CFR 798.4350	rats	whole-body inhalation, gestation days 7-16	0, 500, 2000, 7000 ppm	25	No treatment-related differences in fertility, number of resorptions, number of live fetuses, sex ratio, mean fetal weight, or incidences of fetal malformations or variations were observed. No evidence of developmental toxicity was observed at any treatment level The NOEL was 500 ppm At 2000 and 7000 ppm, diminished or no response to sound stimulus was noted. The NOEL was 500 ppm	62 FR 8956; 2/27/97 Docket# OPPTS-44637
Cyclohexane	110-82-7	HERTOXTERA Developmental toxicity	40 CFR 798.4350	rabbits	whole-body inhalation, gestation days 6-18	0, 500, 2000, 7000 ppm	20/group	There were no-compound-related effects on maternal toxicity and incidence of fetal malformations or variations observed at any test concentration. Therefore, the maternal and developmental NOELs were 7000 ppm.	63 FR 39520; 7/23/97 Docket# OPPTS-44641
Cyclohexane	110-82-7	HERTOXTERE Reproductive effects	40 CFR 798.4700	rats	inhalation, 10 weeks	0, 500, 2000, 7000 ppm	30/sex	Adverse effects at the 7000 ppm level included statistically significant reductions in mean pup weight in the F1 and F2 generations. No adverse effects were observed at dose levels of 500 ppm and below. The systemic toxicity NOEL was 500 ppm and the reproductive NOEL was 2000 ppm based on decreased pup weights.	62 FR 31099; 6/6/97 Docket# OPPTS-44640
Cyclohexane	110-82-7	HESTOX Subchronic inhalation toxicity	40 CFR 798.2450	mice	inhalation, 6 hr/day, 14 wks	500, 2000, 7000 ppm	20/sex (7000 ppm), 10/sex (500 and 2000 ppm)	No compound-related mortalities were observed in the study. No differences in mean body weights, mean body weight gain, food consumption, or food efficiency were observed between treated and control groups. During exposure, mice exposed to 2000 or 7000 ppm had diminished to absent responses to an alerting stimulus and showed clinical signs of toxicity. No compound-related abnormalities were observed during the final ophthalmological examination. No compound-related gross or microscopic changes were observed. The NOEL was 500 ppm in this study.	61 FR 49135; 9/18/96, Docket# OPPTS-44631

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Cyclohexane		HESTOX Subchronic inhalation toxicity	40 CFR 798.2450	rats	inhalation, 90 days		and 7000 ppm); 10/sex (500, 2000 ppm)		61 FR 67333; 12/20/96, Docket# OPPTS-44634